APC PDU

AP9553
AP9558

Installation Manual

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Before You Begin

Safety and grounding information

Please read the following information before installing or operating your APC Power Distribution Unit (PDU):

- This PDU is intended for indoor use only.
- Do not install this PDU where excessive moisture or heat is present.
- Never install any wiring, equipment, or PDUs during a lightning storm.
- Plug this PDU into a three-wire, grounded power outlet only. The power outlet must be connected to appropriate branch circuit/mains protection (fuse or circuit breaker). Connection to any other type of power outlet may result in a shock hazard.
- Use only the supplied brackets for mounting.
- Do not use extension cords or adapters with this PDU.
- Do not work alone under hazardous conditions.
- Check that the power cord, plug, and socket are in good condition.
- To reduce the risk of electric shock when grounding cannot be verified, disconnect the PDU from the power outlet before installing or connecting equipment. Reconnect to the power outlet only after making all connections.
- Equipment must have a protective earth connector which carries the leakage current from the load devices (computer equipment). Do not exceed a total leakage current of 3.5 mA.

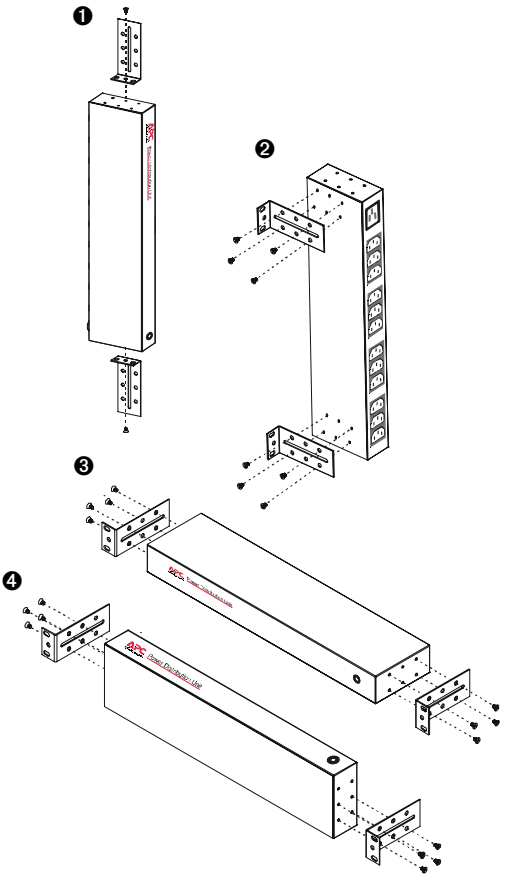
Installation

Mounting options

This PDU was designed to be mounted in a variety of orientations within an enclosure. The mounting brackets (included) are equipped with multiple hole patterns for horizontal or vertical installation. Study the figures on this page and the next for mounting options.

Attach the mounting brackets

1. Choose a mounting option (1 to 4) and orient the brackets appropriately.
2. Attach the brackets to the unit, using four flat-head Phillips screws (provided) for each bracket.



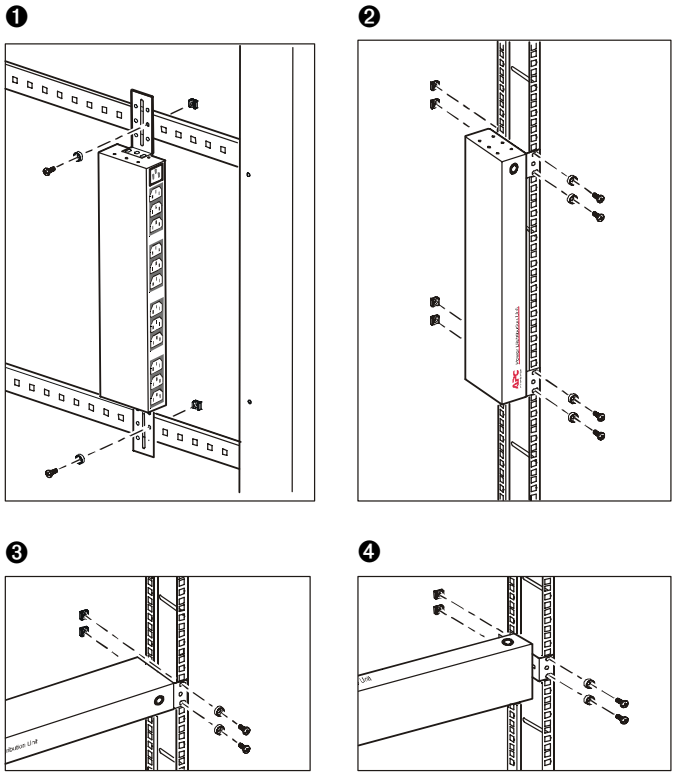
Attach the unit to the enclosure

1. Choose a location for the unit and install four caged nuts (provided with your enclosure) in your chosen location. Align the caged nuts with the brackets you attached to the unit.

Note

If you are attaching your PDU to a NetShelter enclosure's vertical mounting rail, install the caged nuts immediately above and below a notched hole on each vertical rail.

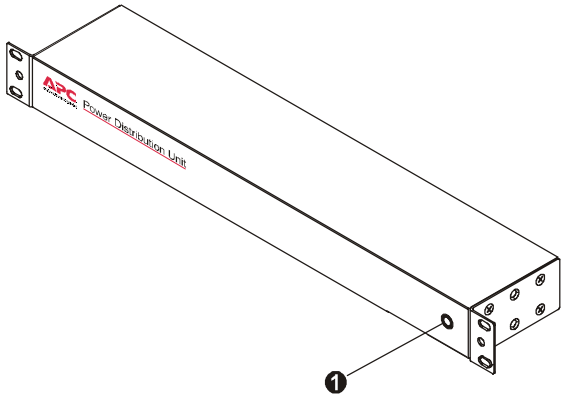
2. Align the mounting holes of the brackets with the installed caged nuts. Insert the screws and tighten.



Operation

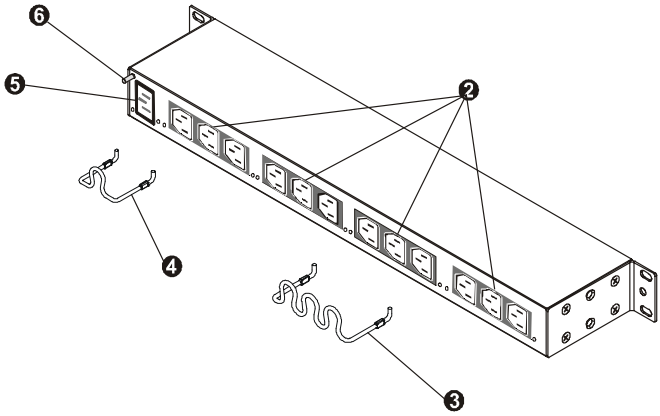
Front view

Review the following figures and related descriptions to familiarize yourself with the components and the operation of your PDU.



❶	Circuit Breaker	The circuit breaker is tripped when the button is extended. When it is tripped, the PDU is overloaded and at least one piece of equipment needs to be unplugged. The circuit breaker is rated to trip at the same overload as most home and office utility service branch protectors (20).

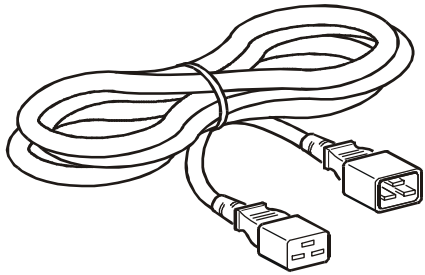
Rear view



❷	Outlets	Twelve IEC C13 outlets (10 A at 240 V; 15 A at 120 V)
❸	Plug pull-out guard	Guard used to prevent cords from being accidentally disconnected from the outlets (Four are provided.)
❹	Power cord guard	Guard used to prevent power cord from being accidentally disconnected from the inlet
❺	Power inlet	IEC C20 inlet (16 A at 240 V; 20 A at 120 V)
❻	Ground stud	6-32 ground stud that can be used to ground the unit to the enclosure

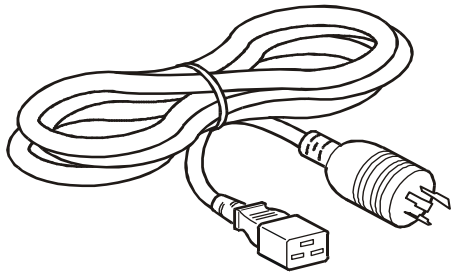
Power Cords

The AP9553 model includes a detachable 8 ft. input power cord. The cord ends are IEC 320 C20 and IEC 320 C19:

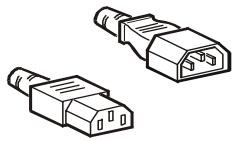


The AP9558 model includes the following cords:

- A detachable 12 ft. input power cord (AP9871). The cord ends are IEC 320 C19 and NEMA L6-20:



- 12 additional power cords (AP9870) that you can use to connect the output receptacles to the load equipment. The cord ends are IEC 320 C13 and IEC 320 C14:



To purchase other cords, see *Input Power Cords for Rack-Mount PDUs* (990-1112) shipped with your PDU.

Warranty and Service

Limited warranty

APC warrants the PDU to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

Warranty limitations

Except as provided herein, APC makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

Except as provided above, in no event will APC be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product, even if advised of the possibility of such damage.

Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise. This warranty gives you specific legal rights and you may also have other rights, which vary according to jurisdiction.

Obtaining service

To obtain support for problems with your PDU:

1. Note the serial number and date of purchase.
2. Contact Customer Support at a phone number on the back cover of this document. A technician will try to help you solve the problem by phone.
3. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty expired, you will be charged for repair or replacement.
4. Pack the unit carefully. The warranty does not cover

damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.

5. Mark the RMA number clearly on the outside of the shipping carton.
6. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

Life-Support Policy

General policy

American Power Conversion (APC) does not recommend the use of any of its products in the following situations:

- In life-support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life-support device or to affect significantly its safety or effectiveness.
- In direct patient care.

APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

Examples of life-support devices

The term *life-support device* includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults and infants), anesthesia ventilators, infusion pumps, and any other devices designated as “critical” by the U.S. FDA.

Hospital-grade wiring devices and leakage current protection may be ordered as options on many APC UPS systems. APC does not claim that units with this modifications are certified or listed as hospital-grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.

Specifications

Product specifications: AP9553

Item	Specification
Power	
Input voltage range:	100–250 V
Maximum current draw:	120 V / 16 A (UL) 120 V / 12 A (cUL) 240 V / 16 A (VDE) 208 V / 12.8 A (UL) 208 V / 8 A (cUL)
Physical	
Size:	4.00 × 1.75 × 17.0 in 10.16 × 4.45 × 43.18 cm
Net weight:	3.0 lb (1.36 kg)
Shipping weight:	5.4 lb (2.45 kg)
Environmental	
Elevation (above MSL): • Operating • Storage	 0 to 10,000 ft (0 to 3000 m) 0 to 50,000 ft (0 to 15 000 m)
Temperature: • Operating • Storage	 32 to 113° F (0 to 45° C) –13 to 149° F (–25 to 65° C)
Relative Humidity: • Operating • Storage	 0 to 95%, non-condensing 0 to 95%, non-condensing
Approvals/Standards	
UL, cUL, VDE	

Product specifications: AP9558

Item	Specification
Power	
Input voltage range:	100–250 V
Maximum current draw:	120 V / 16 A (UL) 120 V / 12 A (cUL) 208 V / 12.8 A (UL) 208 V / 8 A (cUL)
Physical	
Size:	4.00 × 1.75 × 17.0 in 10.16 × 4.45 × 43.18 cm
Net weight:	3.0 lb (1.36 kg)
Shipping weight (AP9558)	13.5 lb (6.12 kg)
Environmental	
Elevation (above MSL): • Operating • Storage	 0 to 10,000 ft (0 to 3000 m) 0 to 50,000 ft (0 to 15 000 m)
Temperature: • Operating • Storage	 32 to 113° F (0 to 45° C) –13 to 149° F (–25 to 65° C)
Relative Humidity: • Operating • Storage	 0 to 95%, non-condensing 0 to 95%, non-condensing
Approvals/Standards	
UL, cUL	

www.apc.com

APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to find answers to frequently asked questions (FAQs), to access documents in the APC Knowledge Base, and to submit customer support requests.
  - **www.apc.com** (Corporate Headquarters)
    Connect to localized APC Web sites for specific countries, each of which provides customer support information.
  - **www.apc.com/support/**
    Global support with FAQs, knowledge base, and e-support.
- Contact an APC Customer Support center by telephone or e-mail.
  - Regional centers:

APC headquarters U.S., Canada	(1)(800)800-4272 (toll free)
Latin America	(1)(401)789-5735 (USA)
Europe, Middle East, Africa	(353)(91)702020 (Ireland)
Japan	(03)5434-2021 Guidance 3

  - Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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990-6049B **03/2002**